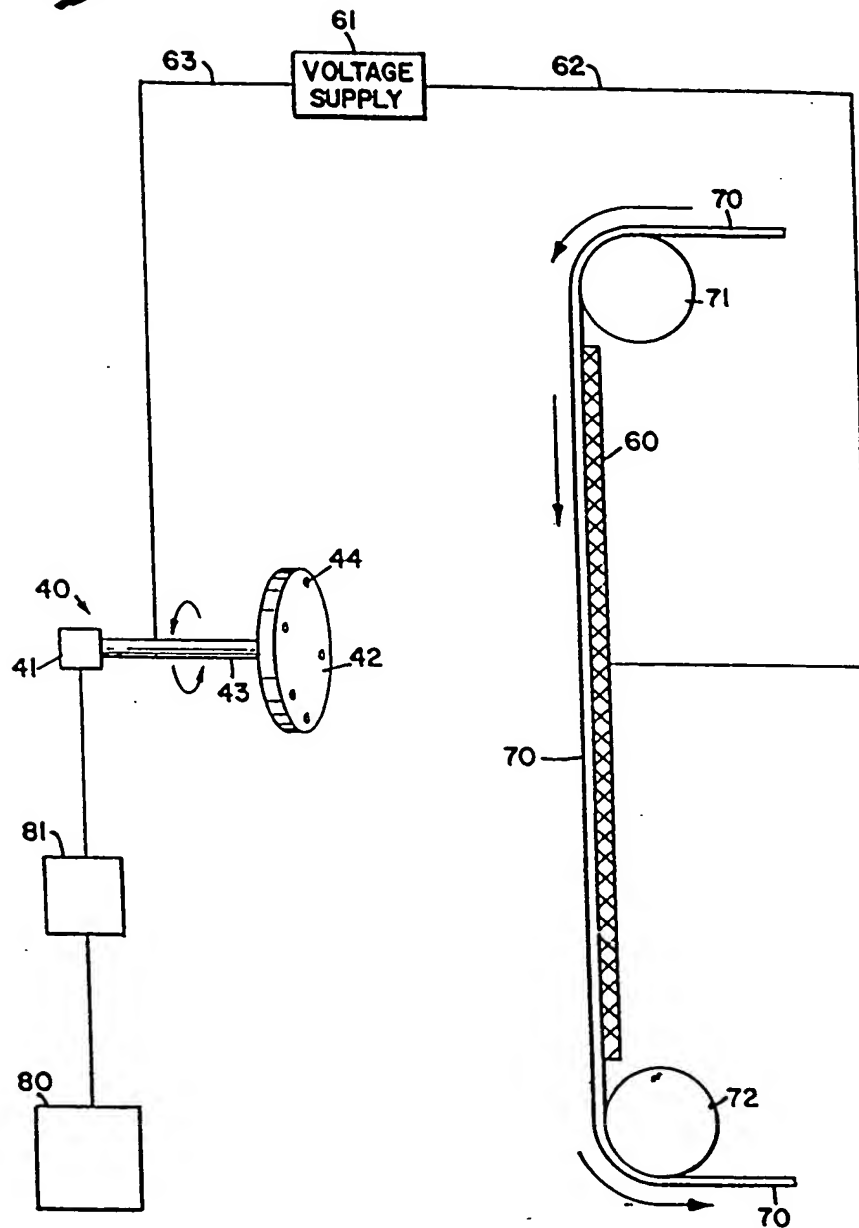
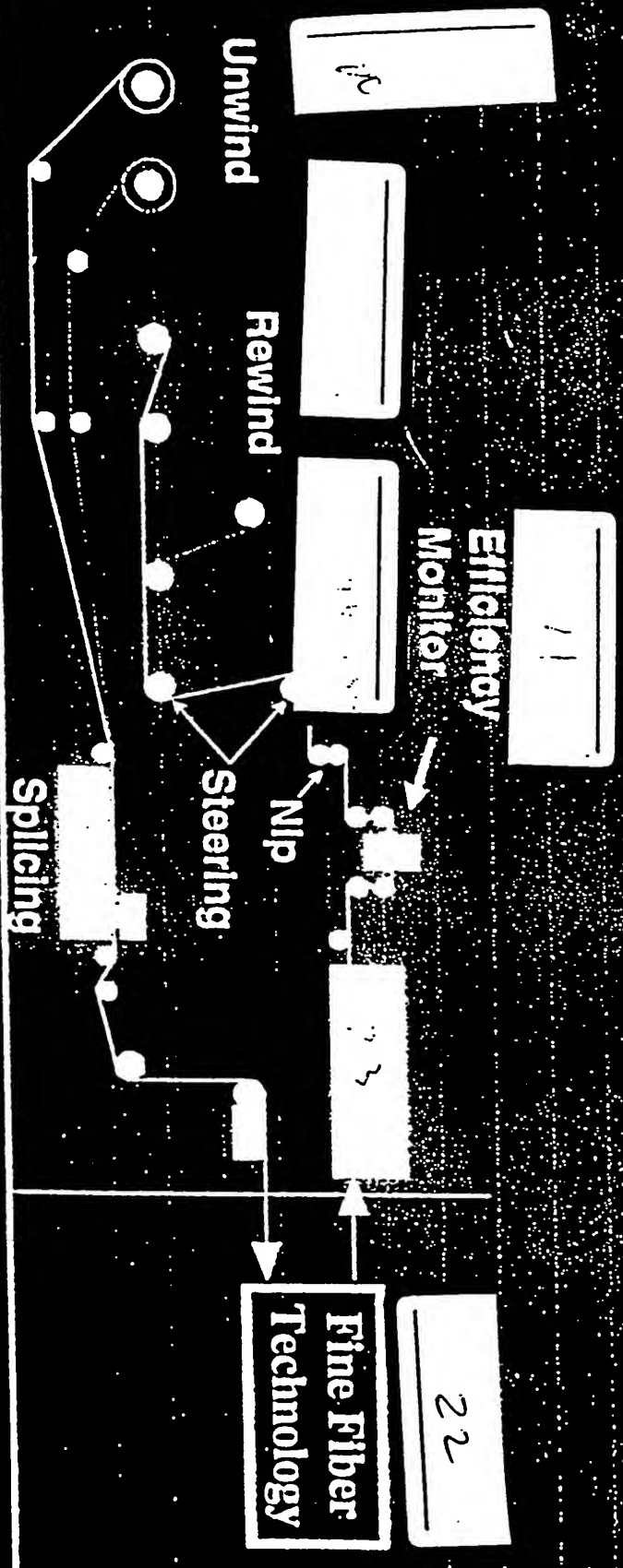


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FIG. 1



Fine Fiber Technology



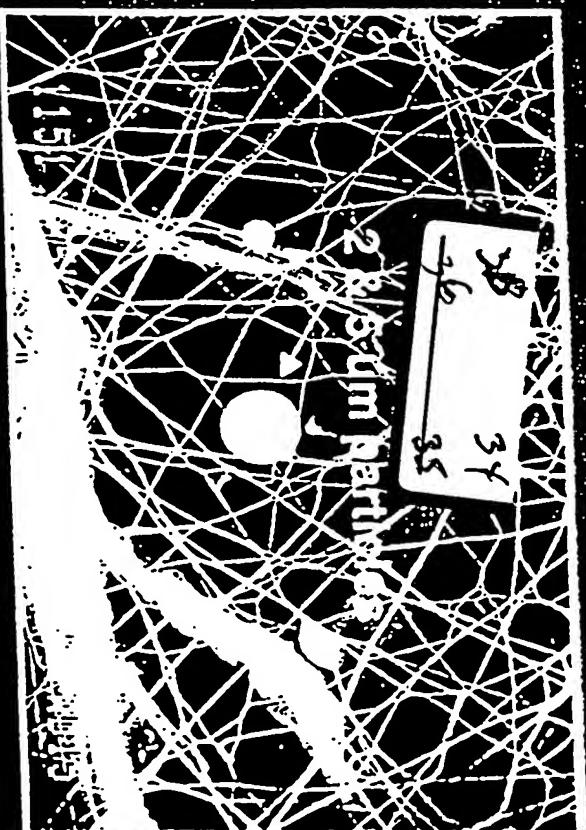
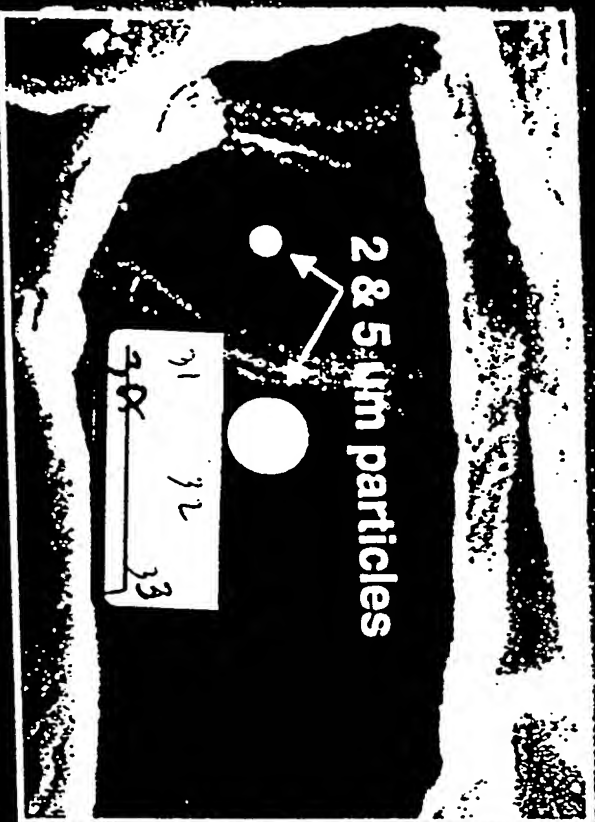
Donaldson
T.M. Walk
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ENC. 2

7/10/00 14:14:14

Cellulose Media

Ultra-Web®



2,000 X Scanning Electron Microscope Images

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Katz Analytical Services, Inc.
1191-20C-3, Sample #: 1, Angle: 65

XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Min: 0 Max: 6658

Curve Fit Summary			
Goodness of Fit: 92.77	Iterations: 2		
#	Position	Intensity	FWHM
1	531.04	8627	1.46
2	532.71	2622	1.86
		% Gauss	Area
		98.48%	10320
		100.00%	4982
		Area %	
		87.44%	
		32.56%	
		D = C	
		O - C	

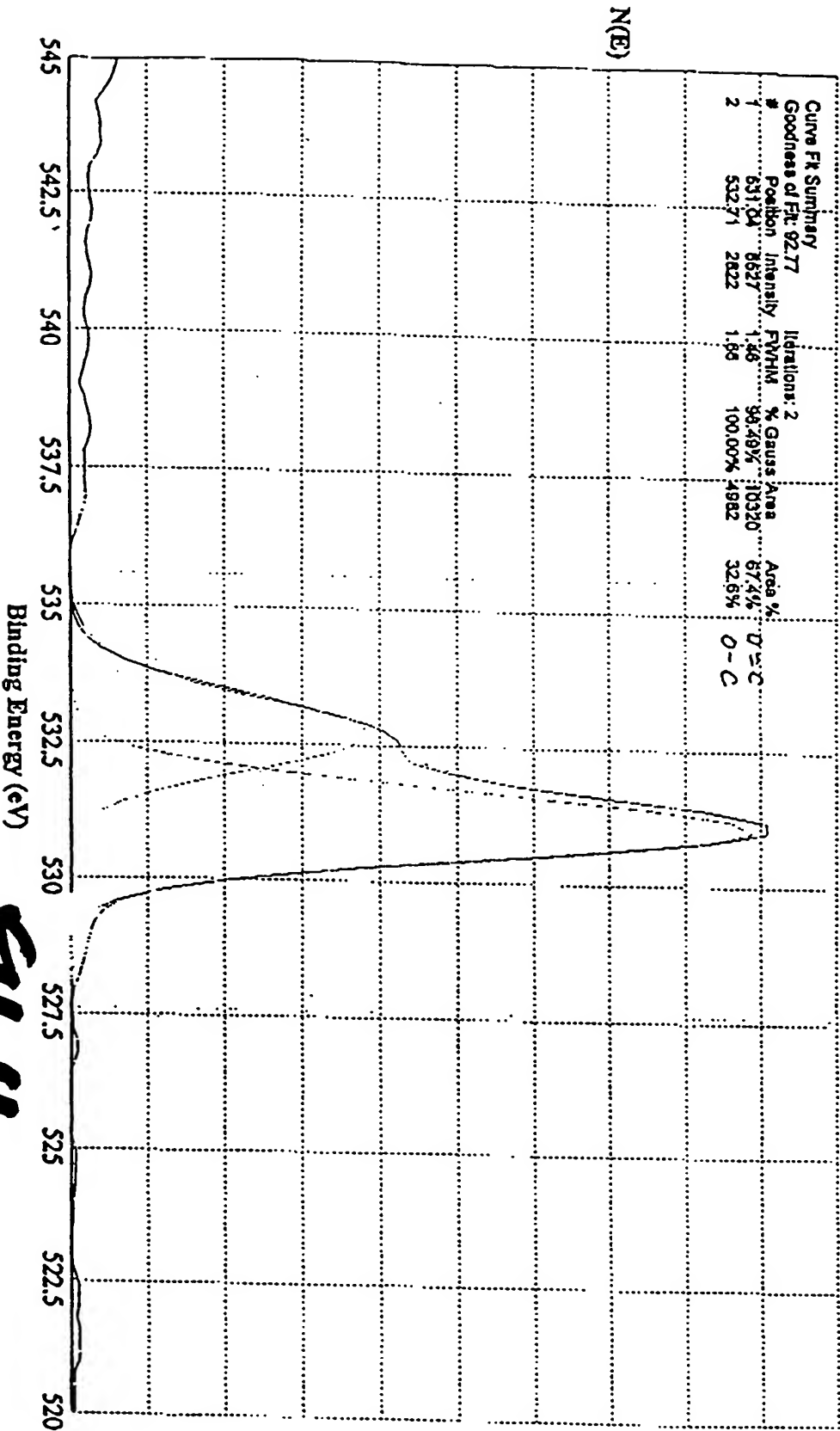


Fig 4. ESCA O 1s Spectra for Sample 4
6A

File 4

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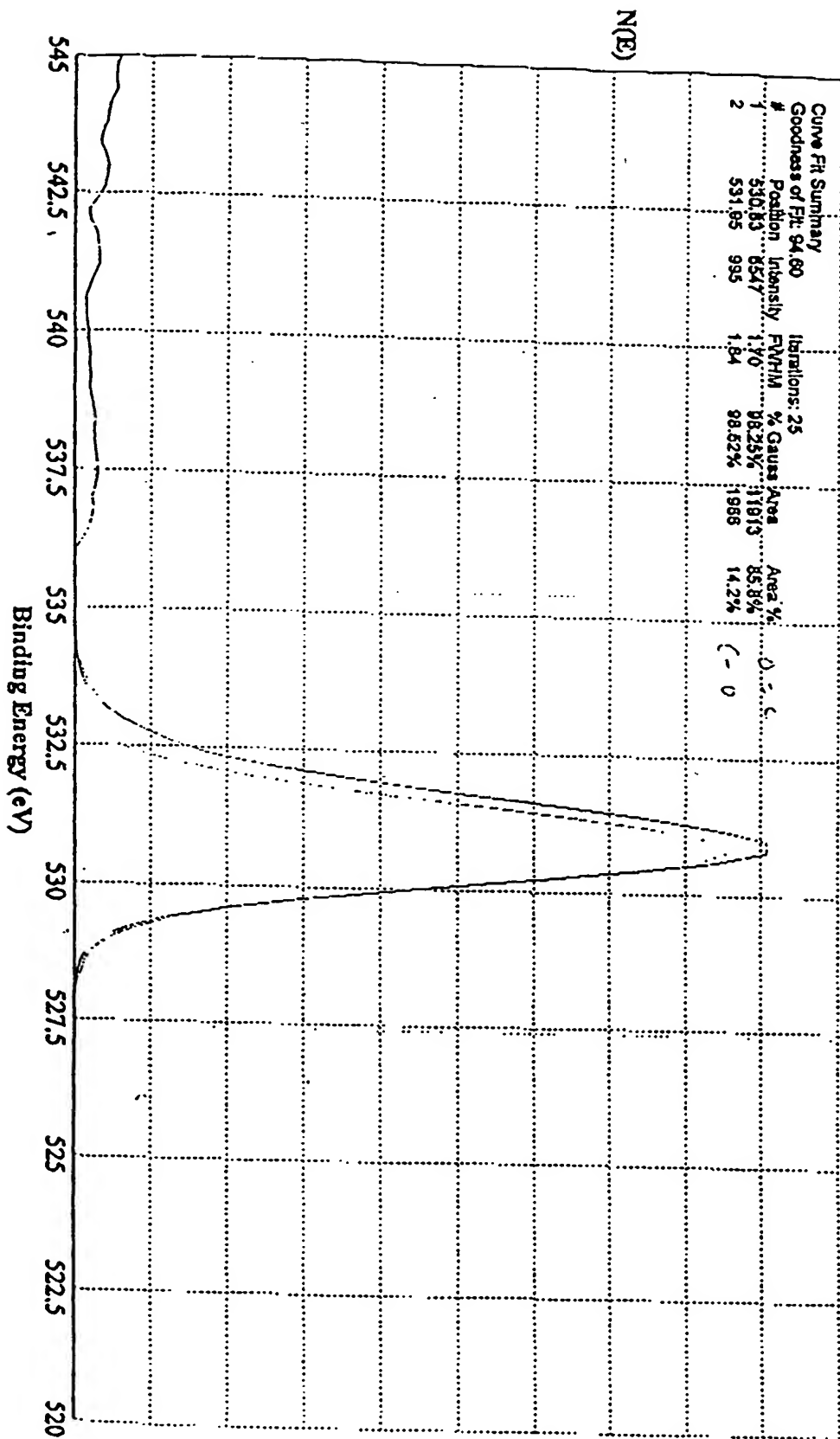
Katz Analytical Services, Inc.
1191-20C-4, Sample #: 1, Angle: 65

XPS Multiplex
O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Min: 0 Max: 6926

Fig 5. ESCA O 1s Spectra for Heat-Treated Sample **64**



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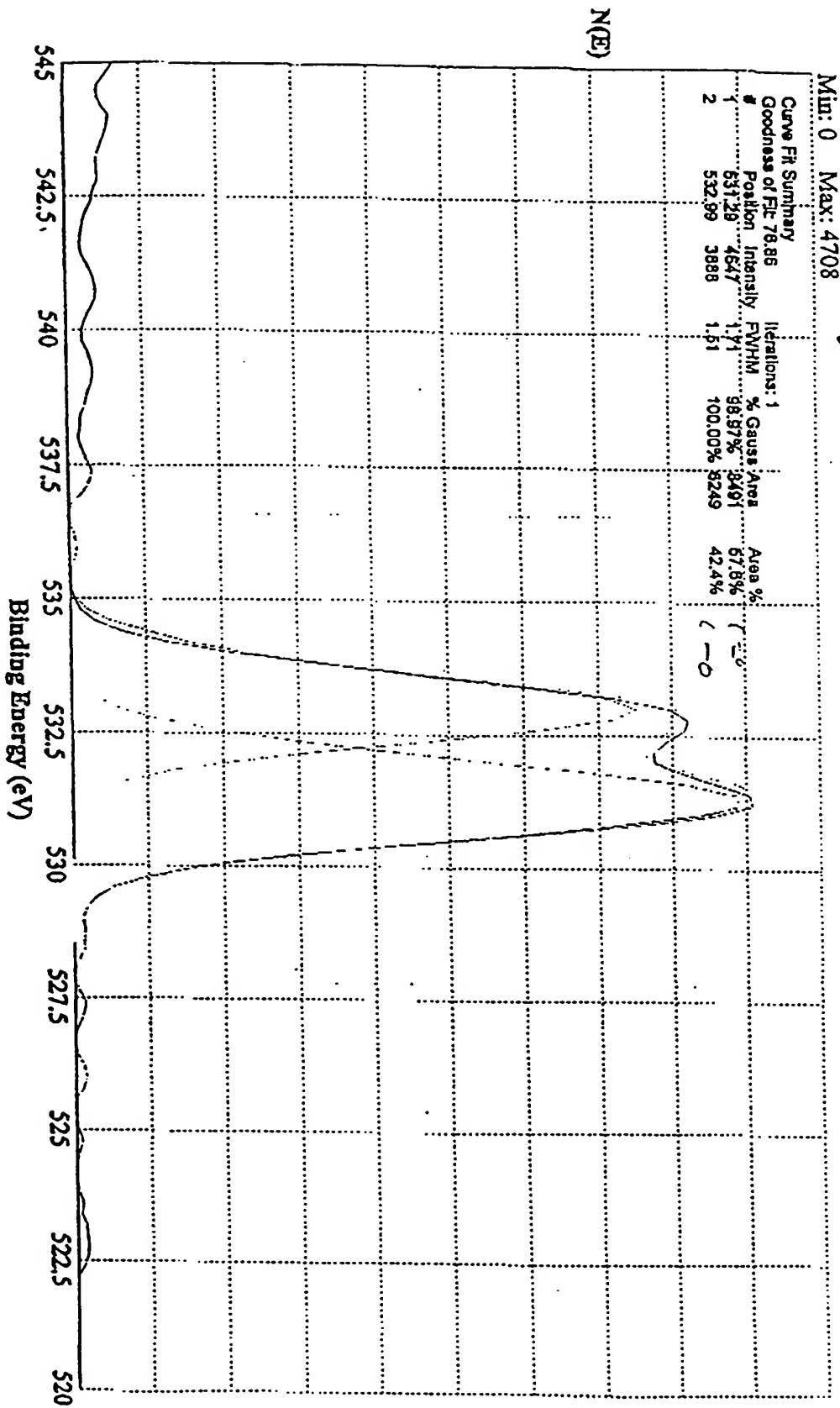
Katz Analytical Services, Inc.
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig B, ESCA O1s spectra for As-Span Example 6B



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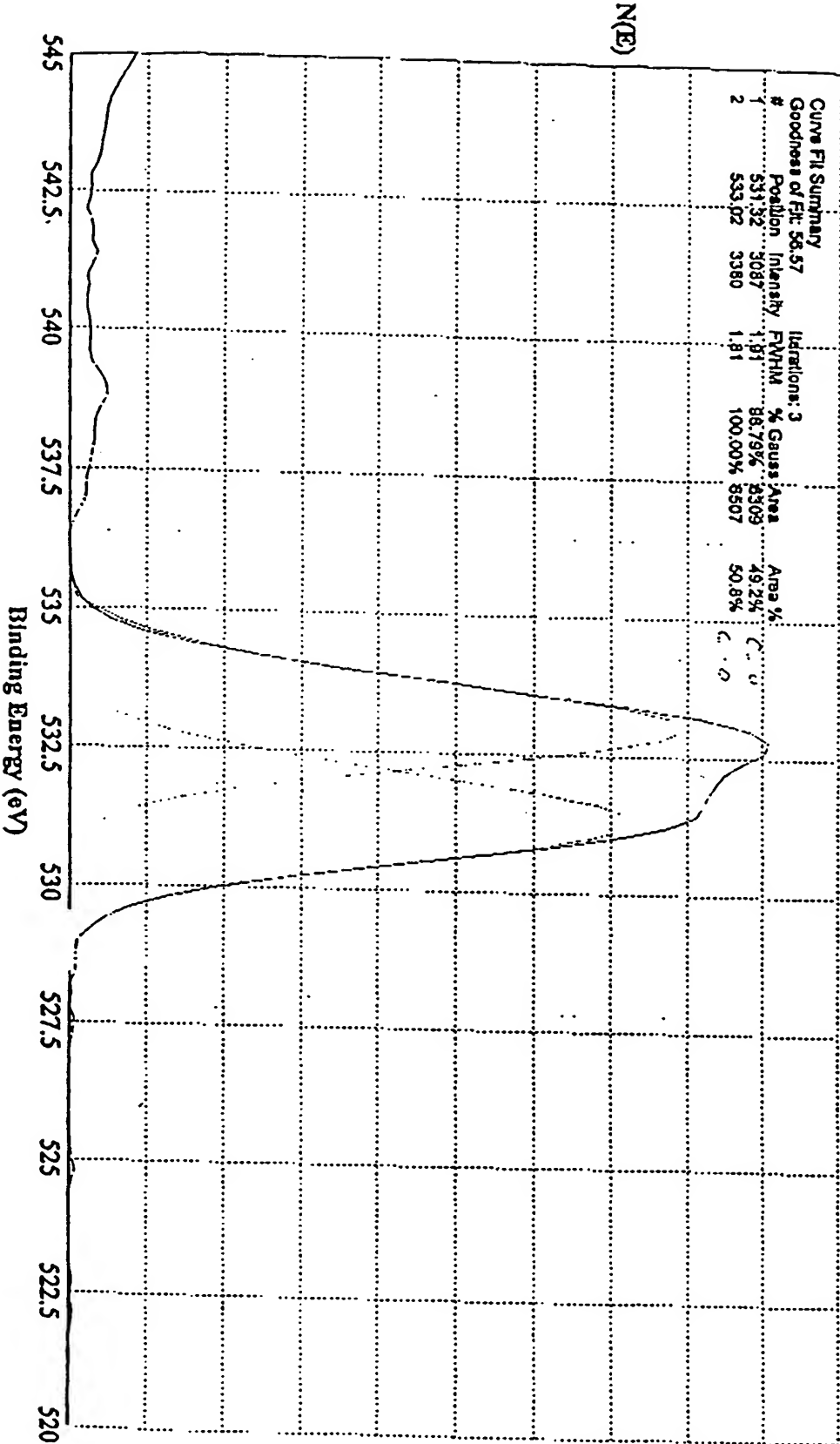
Katz Analytical Services, Inc.
1191-20C-6, Sample #: 1, Angle: 65

XPS Multiplex
O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 16
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Min: 0 Max: 3855

Fig 9 ESCA O1s spectra for heat-treated sample **6B**



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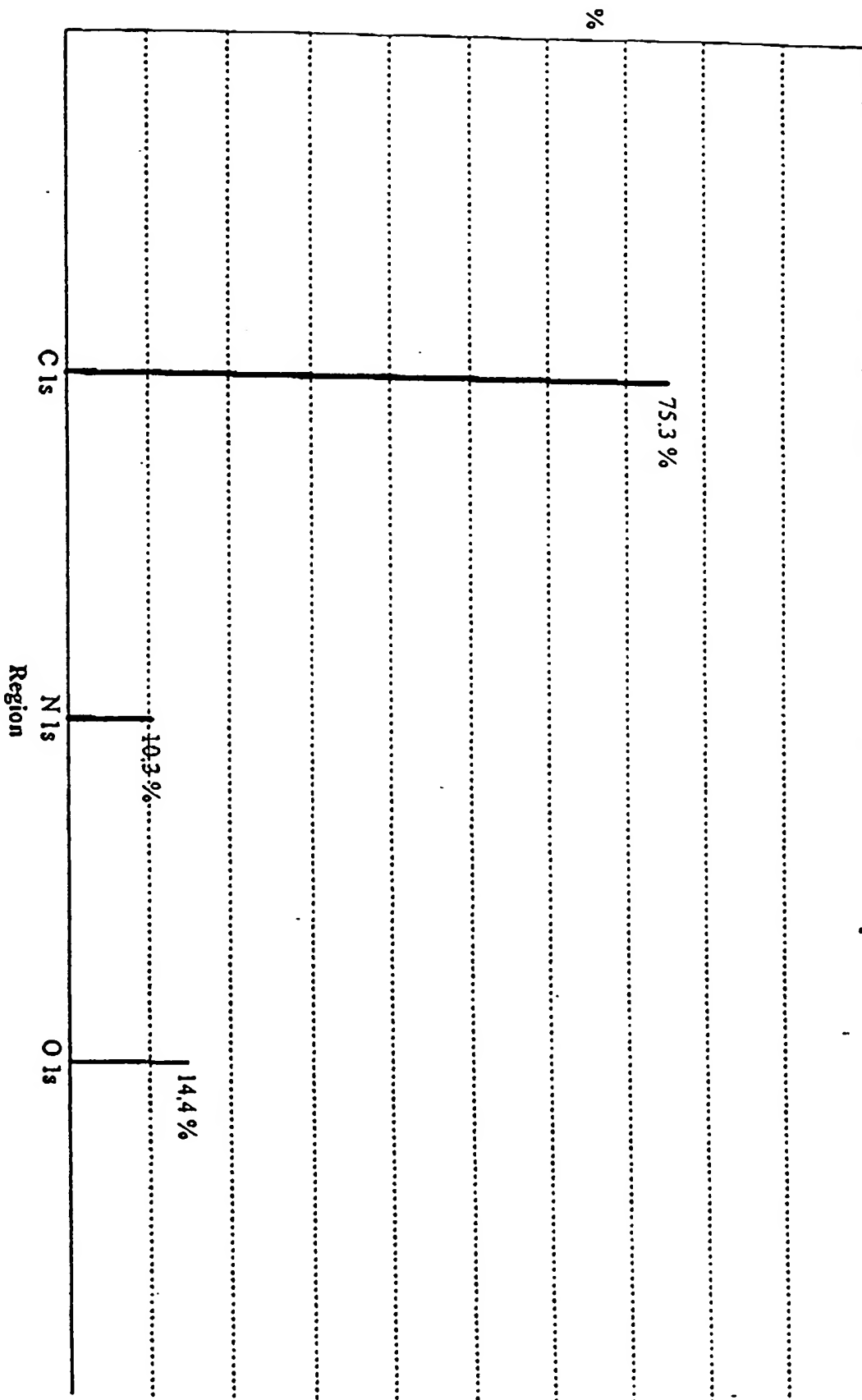
Katz Analytical Services, Inc.
1191-20C-3, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 8 ESCA Multiplex for As-Span Sample 6A

Min: 0 Max: 100



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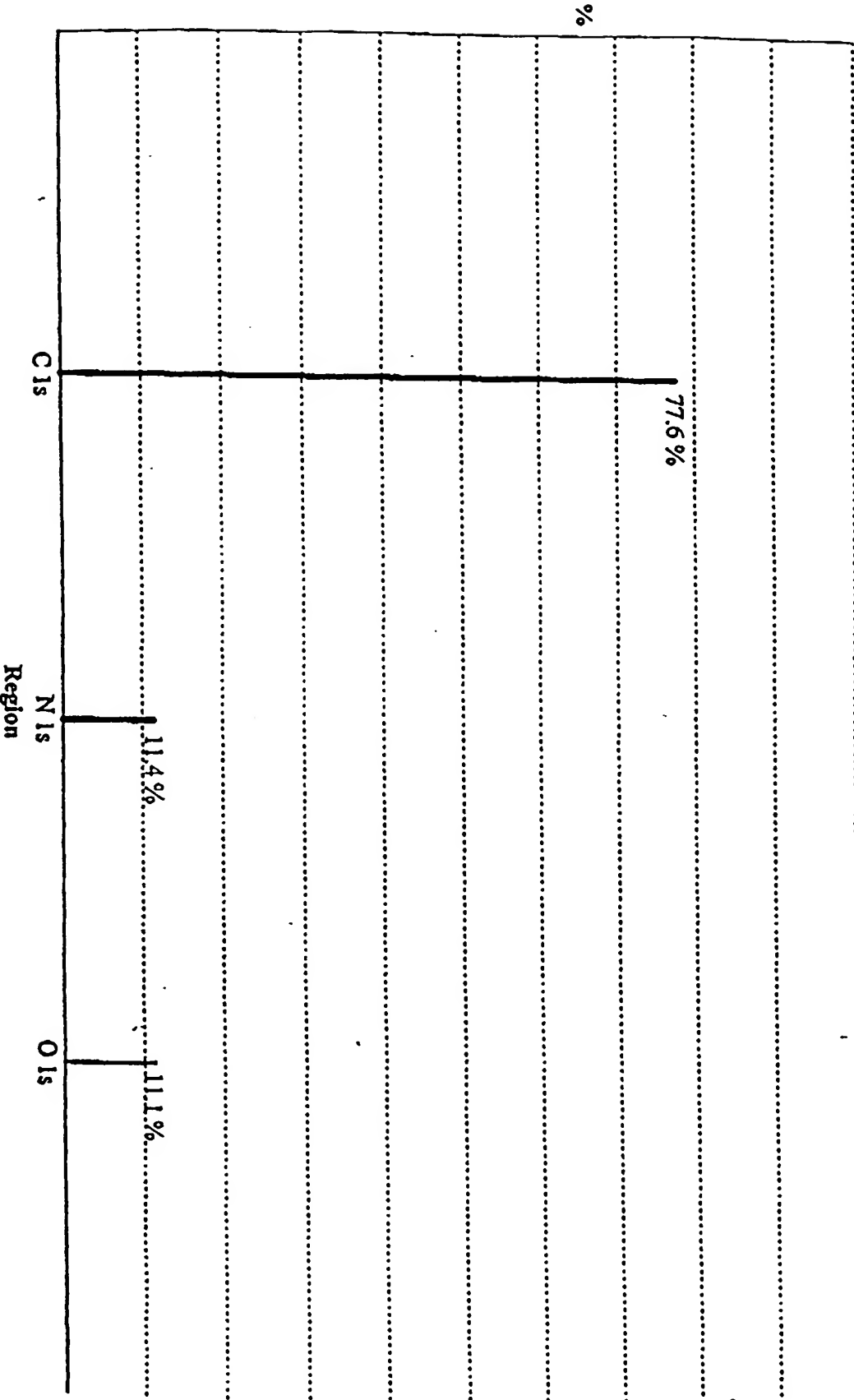
Katz Analytical Services, Inc.
1191-20C-4, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 9. ESCA Multiplex for Heat Treated Sample 6A

Min: 0 Max: 100



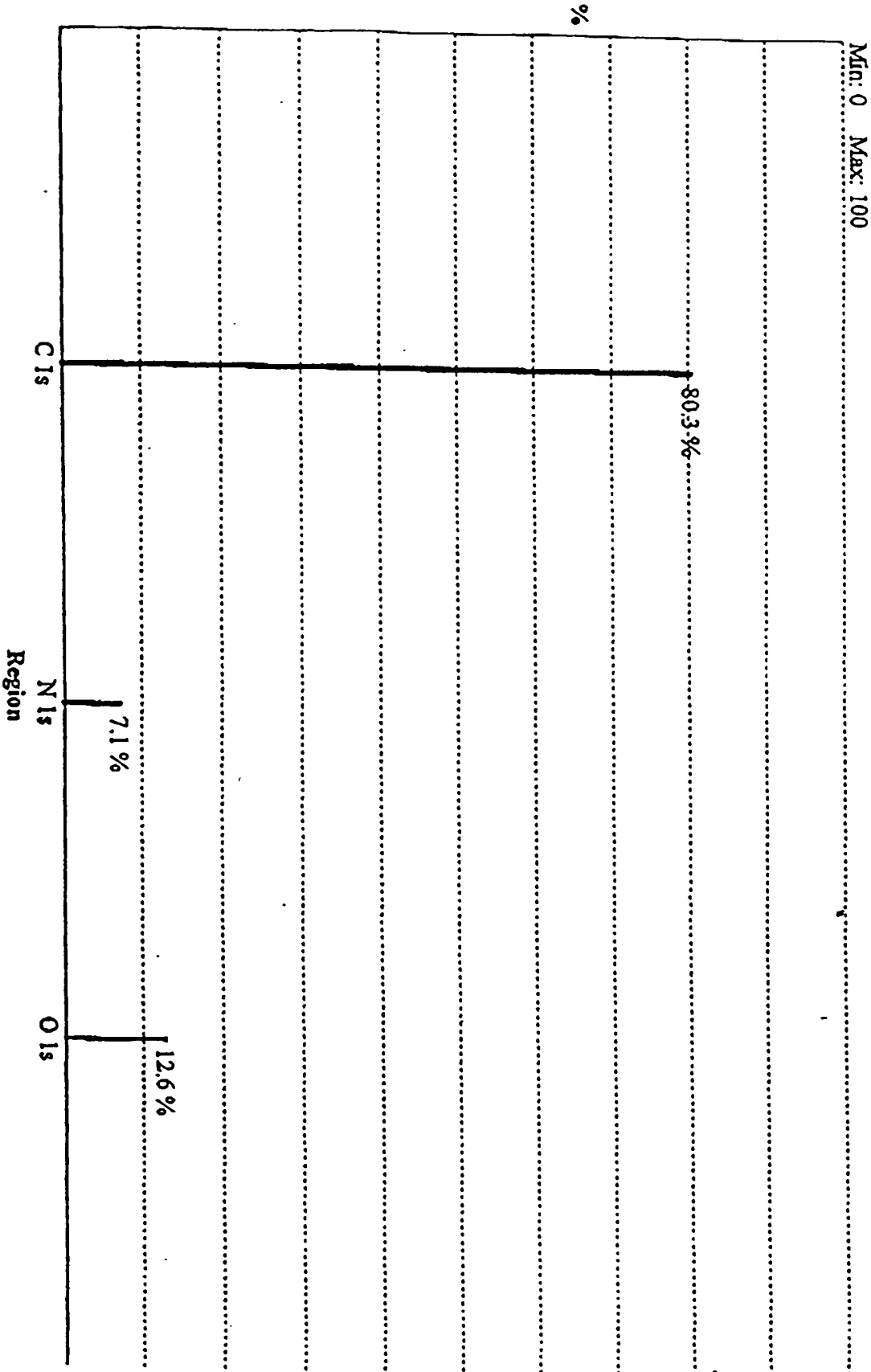
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Katz Analytical Services, Inc.
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 10 ESCA Multiplex for As-Span Sample 66B



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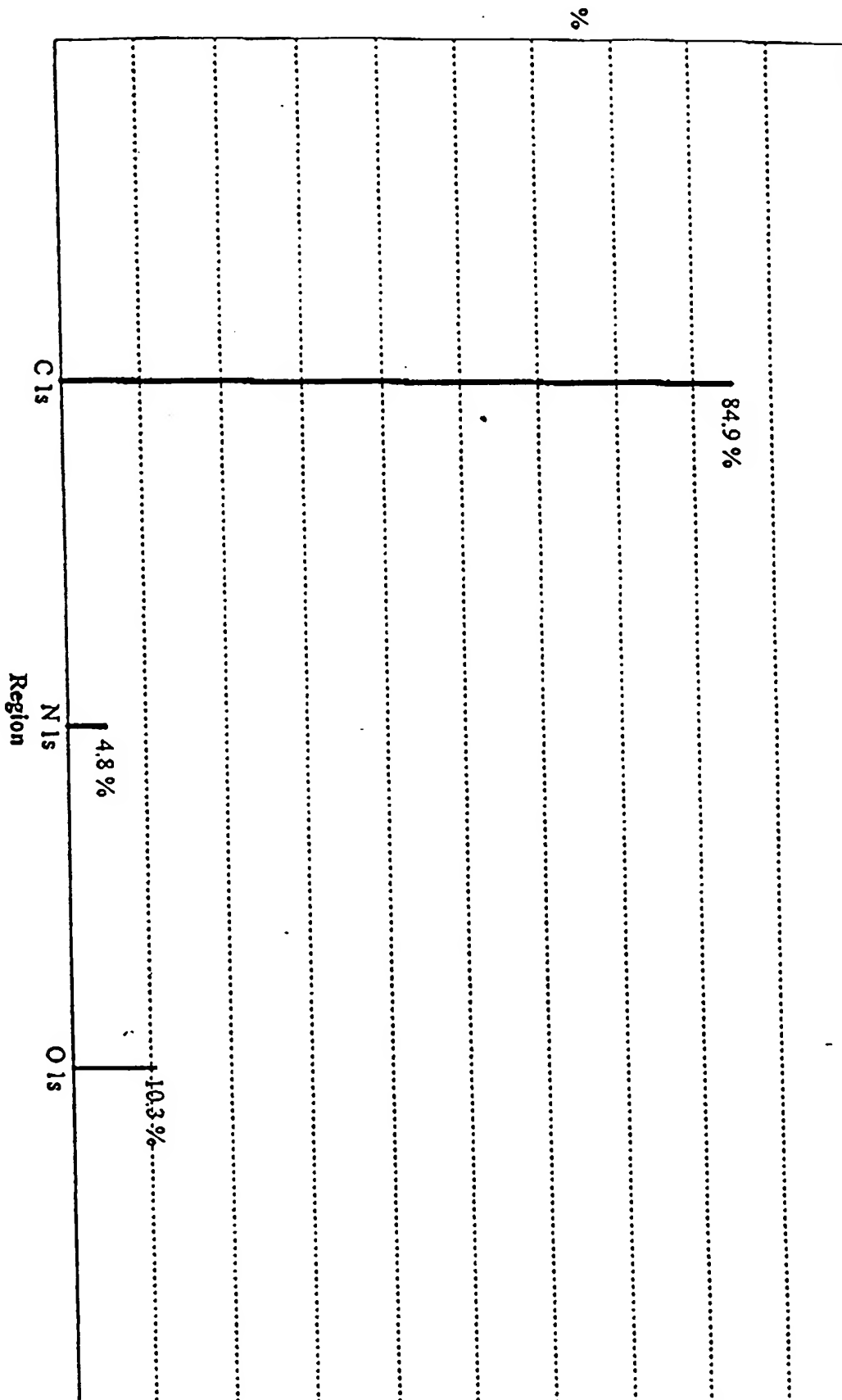
Katz Analytical Services, Inc.
1191-20C-6, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig B ESCA Multiplex for Heat-Treated Sample 6B

Min: 0 Max: 100

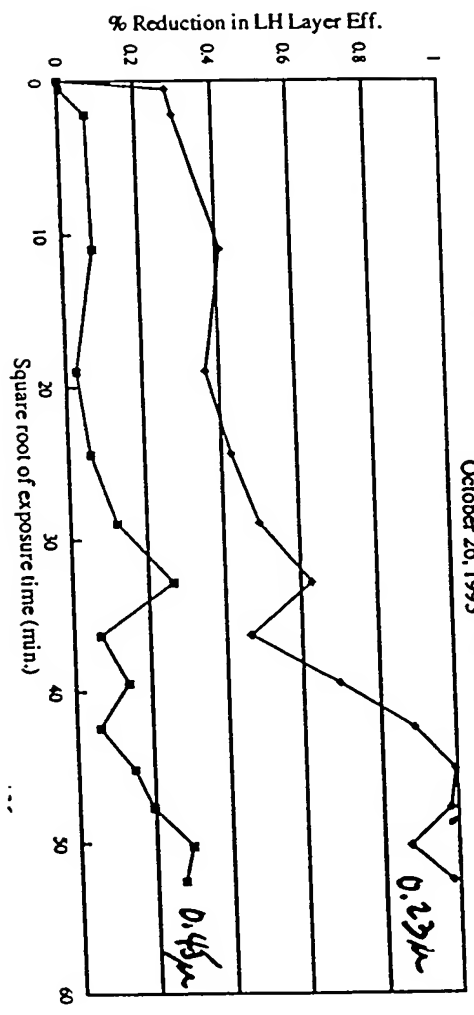


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due to the breakage of similar ...

UltraWeb Long Sock

October 26, 1993



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F16 12

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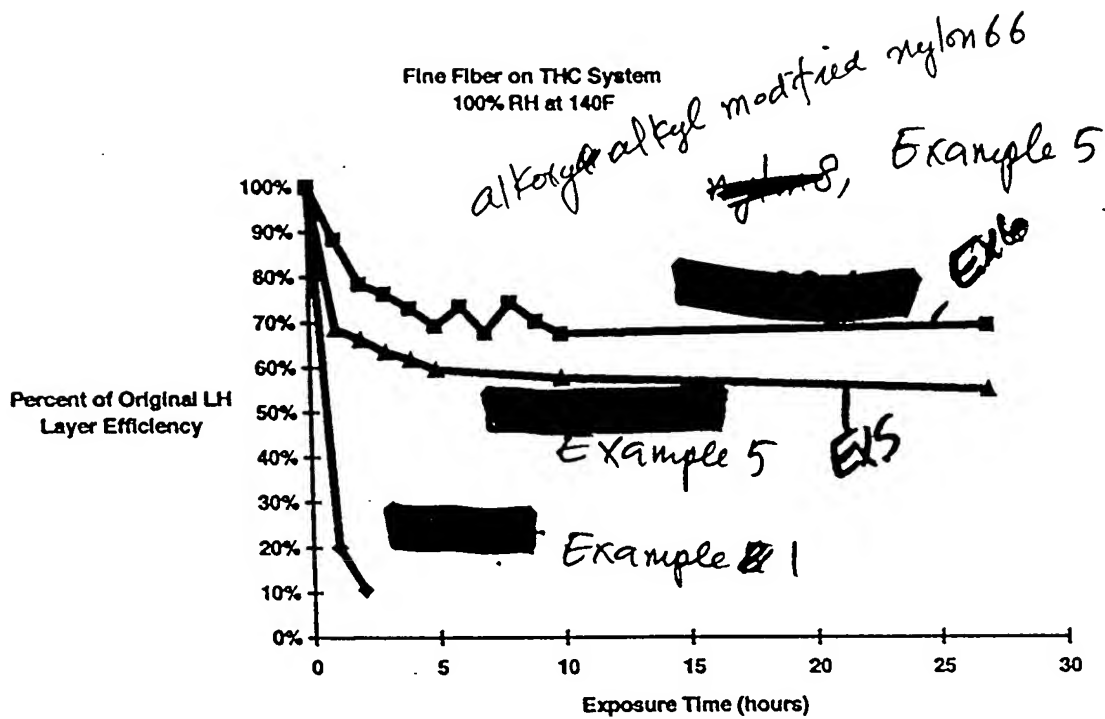
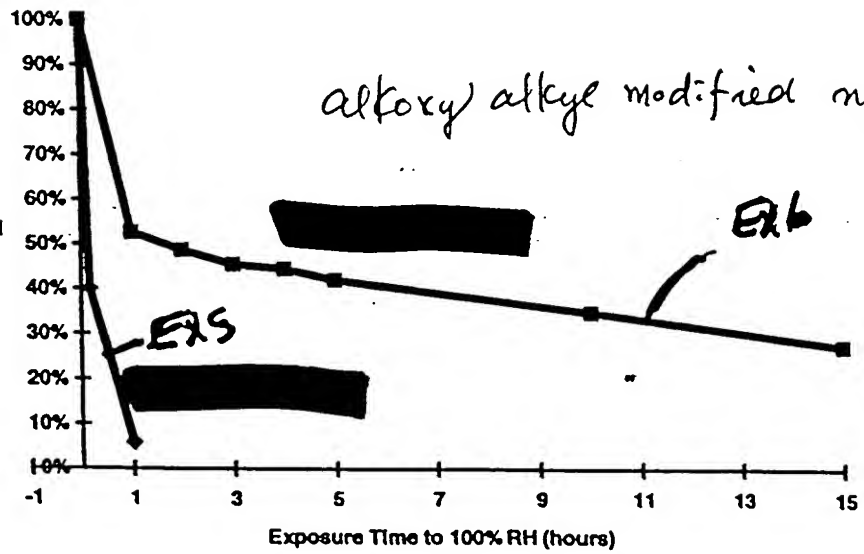


Fig. 13

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FL614

Fine Fiber on the THC System
160 F at 100% RH



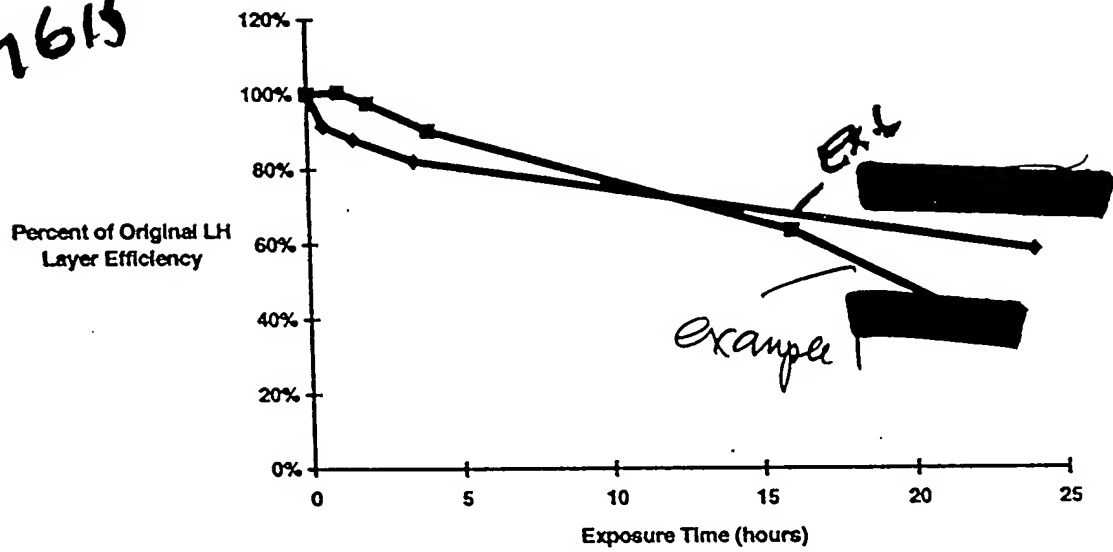
t-1

x5.

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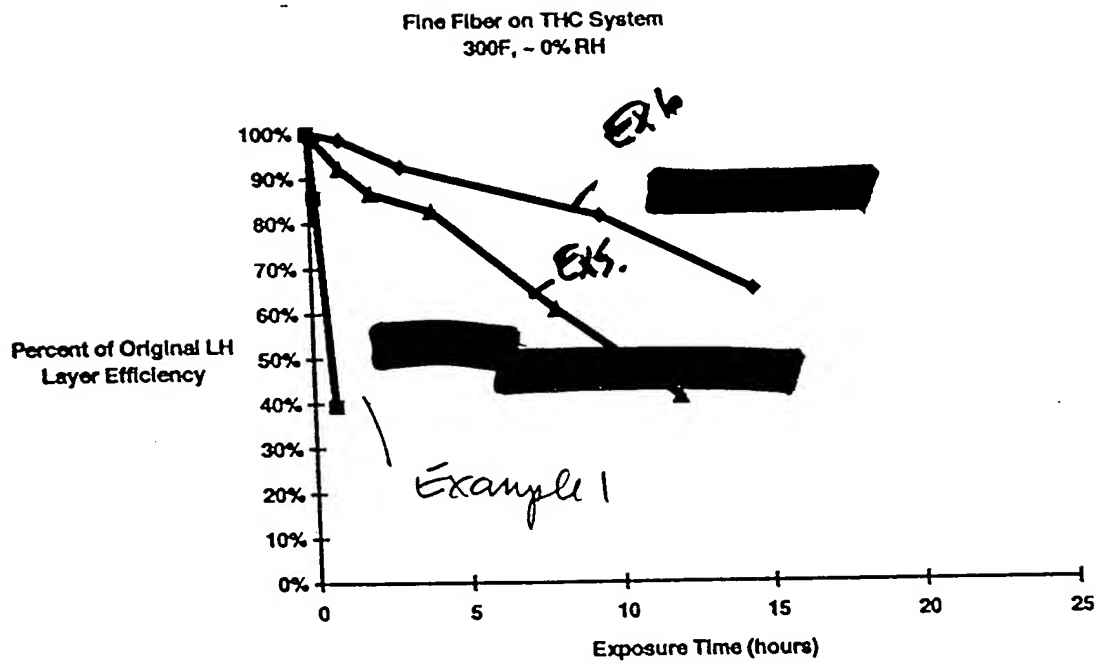
F1615

Fine Fiber on THC System
250F, - 0% RH



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Fig 16

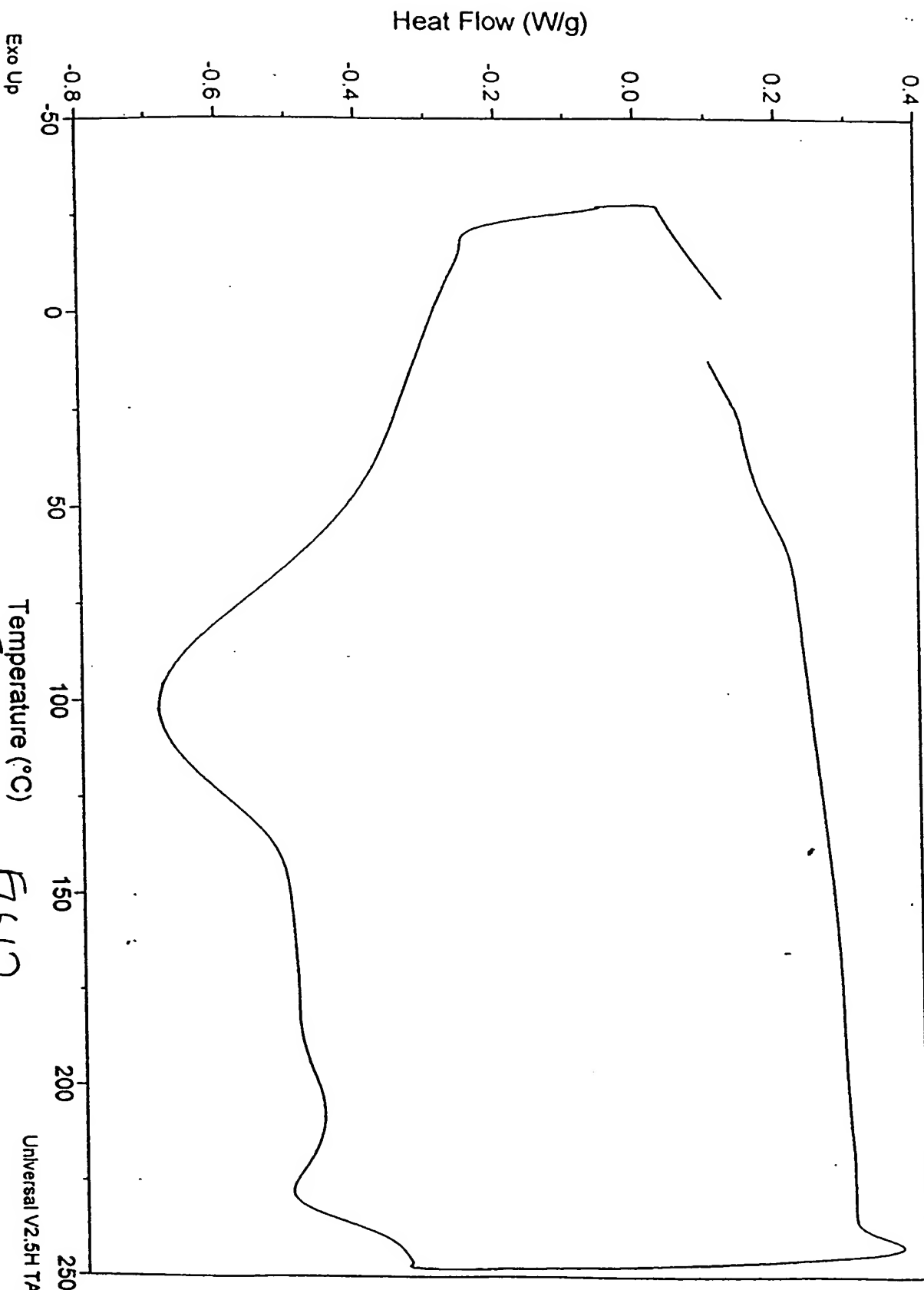


Sample: 1191-19C-6
Size: 9.1500 mg
Method: Polymer Samples
Comment: Material characterization

1st Me H
DSC nylon
100% modified 66

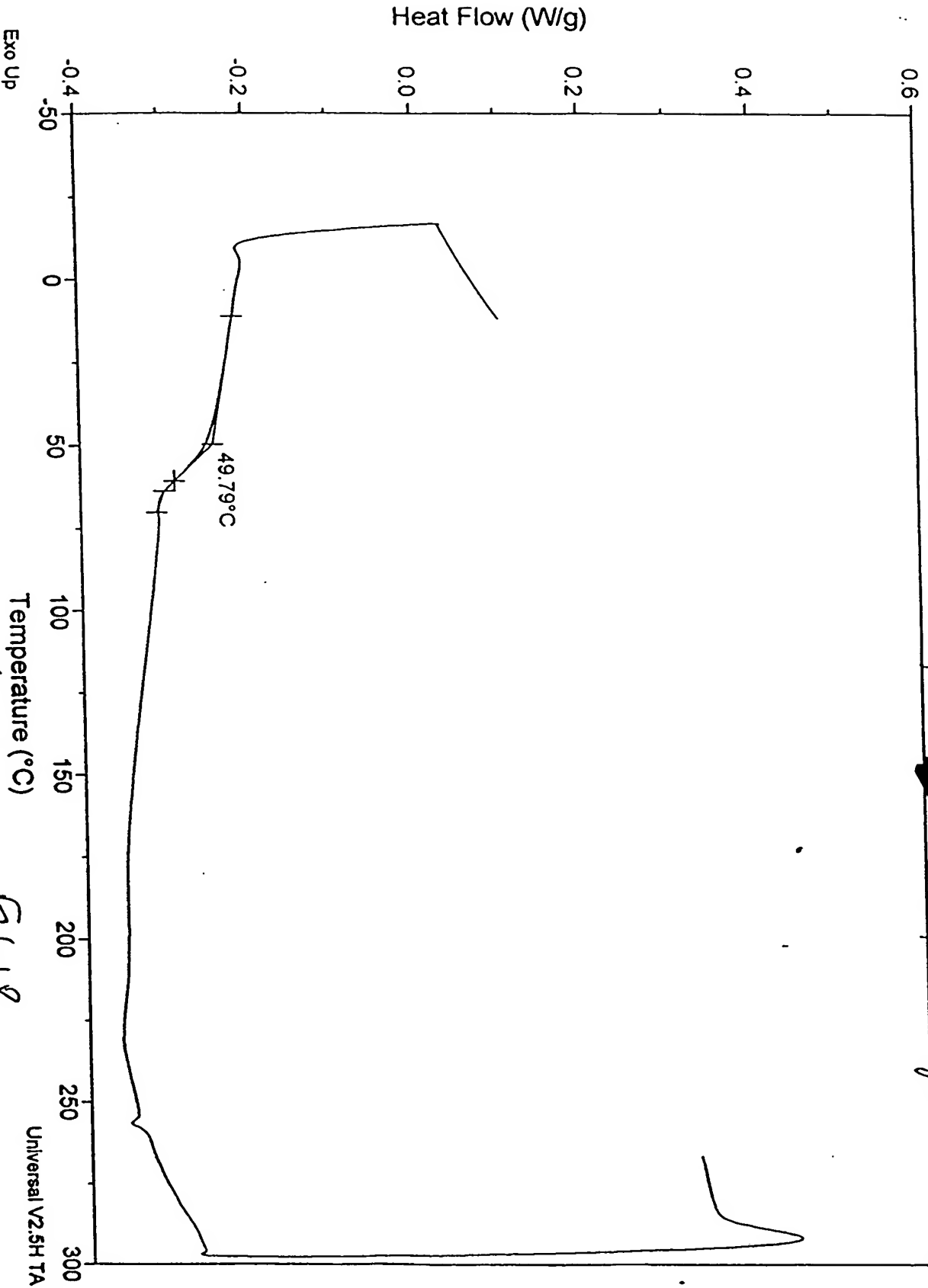
[Redacted]

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Sample: 1191-19C-6
Size: 9.1500 mg
Method: Polymer Samples
Comment: Material characterization

2nd melt
DSC
nylon
66 - After Fully cross-linked



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Sample: 1191-19C-7
Size: 9.8400 mg
Method: Polymer Samples
Comment: Material characterization

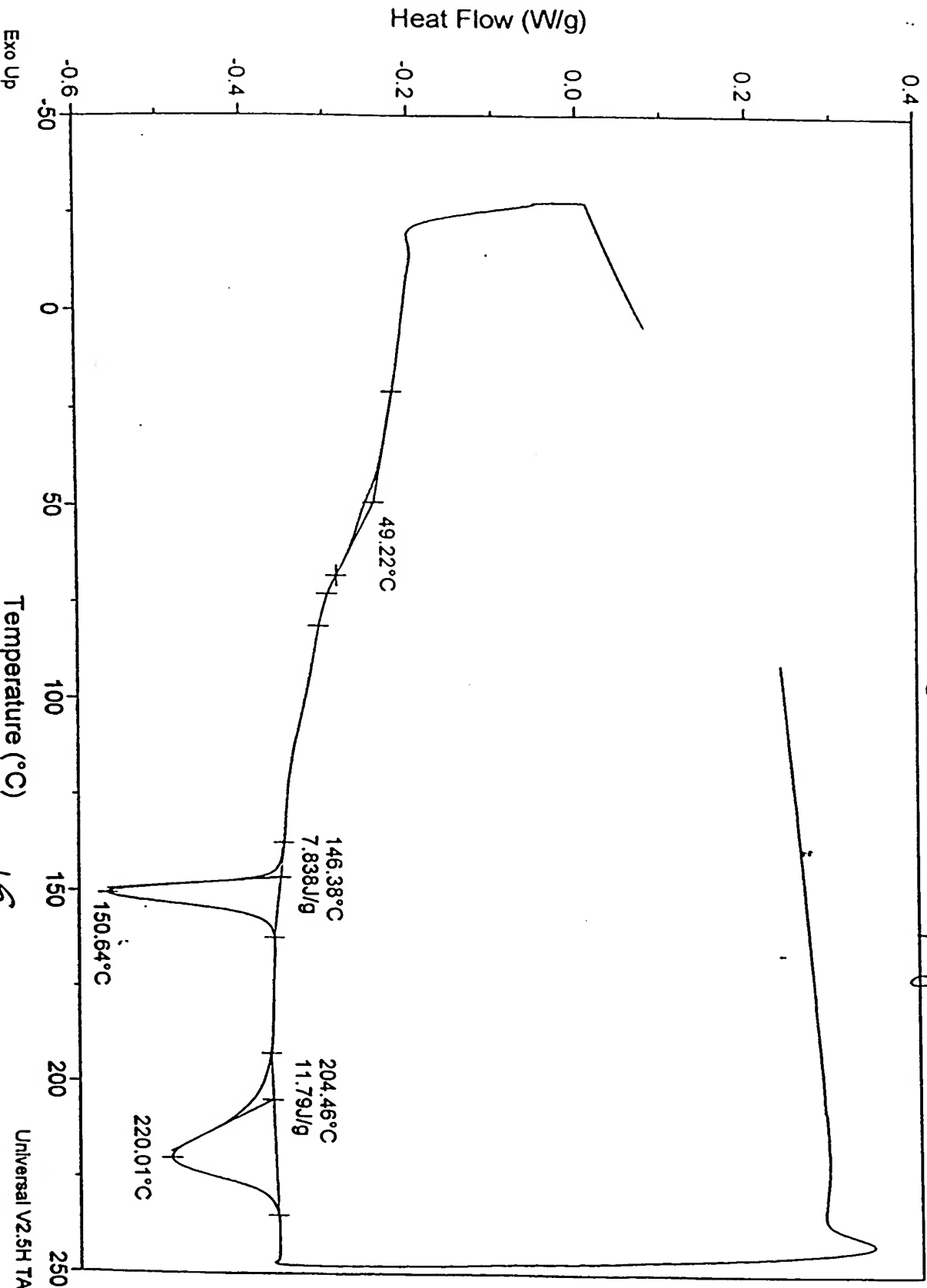
Example 6

1st Melt

DSC

run

70% modified 66: 30% co-polyamide



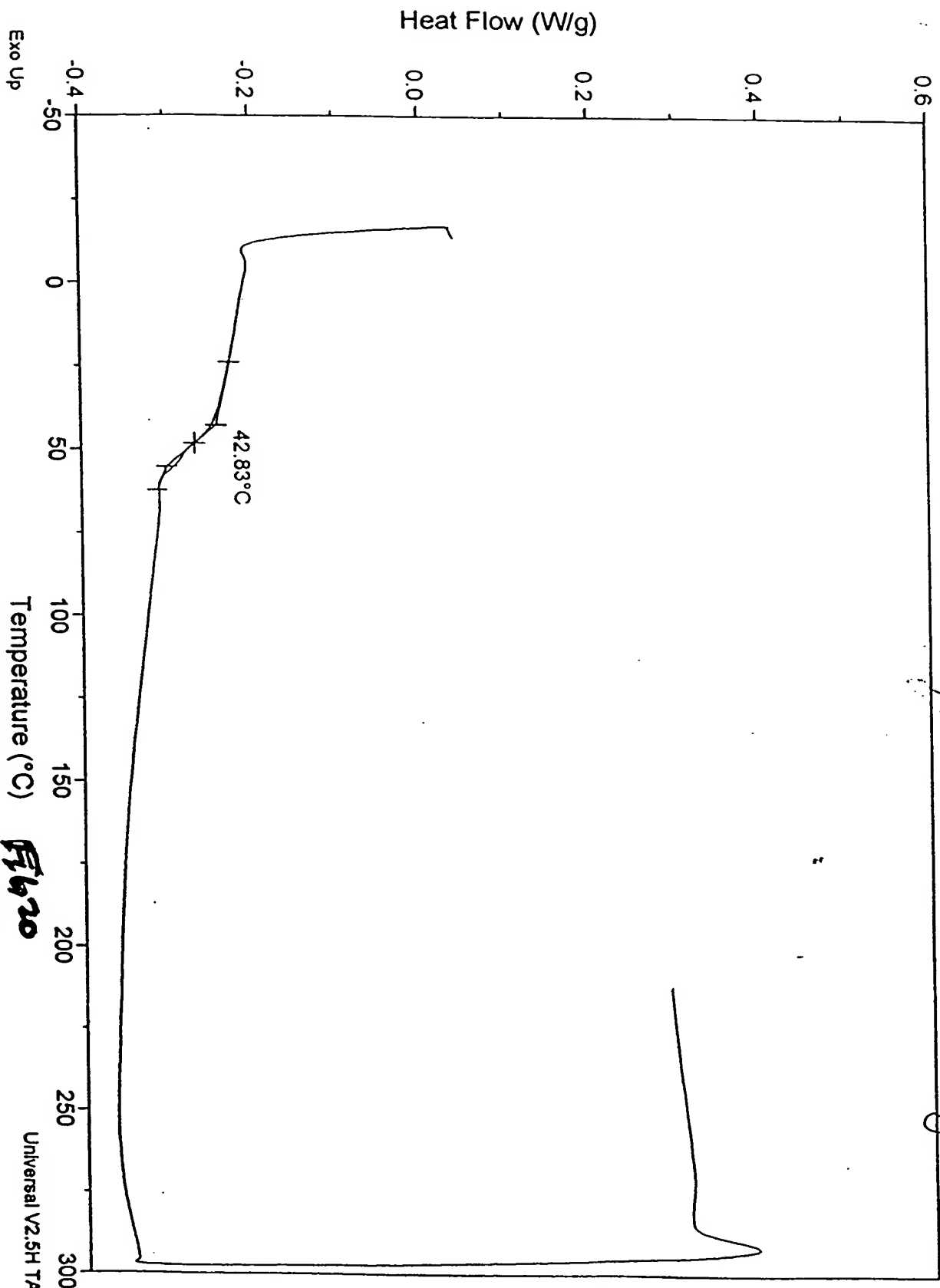
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Sample: 1191-19C-7
Size: 9.8400 mg
Method: Polymer Samples
Comment: Material characterization

Example 6

2nd melt
DSC

70:30 after Full cross linking



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